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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,730	11/20/2003	Daniel N. Cripe	200313587-1	8712
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD			EXAMINER	
			SINKANTARAKORN, PAWARIS	
	INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400		ART UNIT	PAPER NUMBER
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			05/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/717,730	CRIPE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Pao Sinkantarakorn	2616				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDOI	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 20 No.	<u>ovember 2003</u> .					
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) 1-21 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) 1-21 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>20 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	• • • • •					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Offic	ce Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119((a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not recei	ved.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) X Information Disclosure Statement(s) (PTO/SB/08)	Pater Application					
Paper No(s)/Mail Date	6)					

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4, and 7-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Congdon et al. (US 6,15,1,297).

Regarding claim 1, Congdon et al. disclose a computer system comprising:

a central processing unit (CPU) (see column 6 line 15, Network Operating

System runs on a CPU);

a first and second network adapter teamed together and configured to receive offloaded connections (see column 8 lines 57-64, when multiple NICs in a server are attached to a network and the NICs are using the same MAC address, it is possible to receive packets on many ports); and

wherein a program executing on the CPU reloads an offloaded connection established by the first network adapter onto the second network adapter if one of a plurality of packets associated with the offloaded connection was received on the second network adapter (see column 8 lines 1-5, 12-14, and 26-39, the NICs are active on the network at the same time and the invention supports a fault tolerance feature; fault tolerance enables a system to continue operating properly in the event of the failure of some of its components. The switch selects one of the multiple NICs using the

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fault tolerance feature when one of the NICs fails so that there is no need to reestablish a new connection.);

regarding claims 2 and 17, the first and second network adapters are capable of fully offloading all protocol processing (see column 6 lines 34-38);

regarding claims 3 and 18, the first and second network adapters transmit and receive packets of data using a single media access control (MAC) and internet protocol (IP) address (see column 8 lines 1-5);

regarding claim 4, the program reloads an offloaded connection by transferring the context of the connection from the first network adapter to the second network adapter (see column 8 lines 26-39, fault tolerance feature allows the second network adapter to receive the packet assigned to transport via the first network adapter when the first network adapter fails);

regarding claim 7, the first and second network adapters comprise network interface cards (NICs) (see column 6 line 2).

examining a packet received from an external device 9see column 7 lines 38-42); determining whether a connection associated with the packet is currently offloaded (see column 8 lines 26-39, fault tolerance feature determines whether there is any fail NIC in the server, therefore, determines whether a connection associated with the packet is currently transmitted);

Regarding claims 8, 12, and 16, Congdon et al. disclose a method comprising:

reloading the connection if the packet associated with the connection is offloaded and received by a network interface not currently processing the offloaded connection

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(see column 8 lines 1-5, 12-14, and 26-39, the NICs are active on the network at the same time and the invention supports a fault tolerance feature; fault tolerance enables a system to continue operating properly in the event of the failure of some of its components. The switch selects one of the multiple NICs using the fault tolerance feature when one of the NICs fails so that there is no need to reestablish a new connection);

regarding claims 9 and 13, further comprising determining an identifier for the network interface that receives the packet (see column 7 lines 38-44, the switch determines the output port by looking up the Destination Address in the address table) and writing the determined identifier to a memory (see column 7 address table);

regarding claims 10, 14, and 19, the reloading further comprising copying the context of the connection to the network interface that received the packet (see column 8 lines 26-39, fault tolerance feature allows the second network adapter to receive the packet assigned to transport via the first network adapter when the first network adapter fails);

regarding claims 11 and 15, the network interface that received the packet and the network interface currently offloading the connection are teamed together (see column 6 lines 13-17, the group of NICs appear as a single NIC to the clients in the network);

regarding claim 20, the program monitors all data received by the first and second means for sending and receiving data connections (see column 7 lines 38-44,

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the switch determines the output port by looking up the Destination Address in the address table).

Claim Rejections - 35 USC § 103

- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 5, 6, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Congdon et al. in view of Mahalingham et al. (US 6,314,525).

Regarding claims 5, 6, and 21, Congdon et al. disclose all the subject matter of the claimed invention except the system/method, wherein the program inactivates connections associated with packets that have not been received for a defined time period and send a notification to the program.

However, the invention of Mahalingham et al. from the same or similar fields of endeavor disclose a method/system for deactivating a network adapter when the network adapter fails to respond after a predetermined time period, and notifying the program about the deactivation (see column 9 lines 46-56).

Thus, it would have been obvious to the person of ordinary skill in the art to implement a method/system for deactivating a network adapter when the network adapter fails to respond after a predetermined time period, and notifying the program about the deactivation into the data processing method of Congdon et al.

The motivation for implementing the method/system for deactivating a network adapter when the network adapter fails to respond after a predetermined time period, and notifying the program about the deactivation is that it increases efficiency of the NICs in the server.

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Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. McIntyre et al. (US 6,381,218) and Vepa et al. (US 6,560,630) are cited to show methods/systems considered pertinent to the claimed invention.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pao Sinkantarakorn whose telephone number is 571-270-1424. The examiner can normally be reached on Monday-Thursday 9:00am-3:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SUPERVISORY PATENT EXAMINER

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